

THE COASTAL AMERICA PARTNERSHIP  
NATIONAL STUDENT SUMMIT ON OCEANS & COASTS  
SUMMIT PROGRAM



December 5-8, 2006  
Washington, DC



CHAIRMAN

EXECUTIVE OFFICE OF THE PRESIDENT  
COUNCIL ON ENVIRONMENTAL QUALITY  
WASHINGTON, D.C. 20503

December 5, 2006

Dear Student Summit Delegates:

Welcome to the 2<sup>nd</sup> *National Student Summit on Oceans and Coasts!* Through the U.S. Ocean Action Plan and the Cooperative Conservation Initiative, we are taking responsible actions to protect, restore, and preserve our oceans, coasts, and Great Lakes. We must work together to develop sound stewardship practices for these critical ecosystems. Your participation in the Summit is a wonderful example of how Cooperative Conservation can help us to achieve common goals in a collaborative way. In developing your Action Plans, you have demonstrated leadership and vision, and I applaud your hard work.

The Summit coincides with the 10<sup>th</sup> Anniversary of the Coastal Ecosystem Learning Center network (CELC). The Administration salutes the efforts of our CELC network over the past decade. Dedicated to inspiring conservation and life-long learning, the federal partnership and 22 designated CELC facilities provide tremendous outreach capabilities in connecting with over 22 million people annually. The U.S. Ocean Action Plan calls for expanding our CELC network, which we continue to do – most recently through the addition of the Georgia Aquarium to our network. By sharing the expertise of the federal agencies with the family of CELC communities, we can provide the most up-to-date information about our coastal ecosystems to people from all areas and backgrounds across our Nation.

The President's Ocean Action Plan also recognizes the need for an ocean-literate society; something in which cooperative efforts such as the Action Plans you bring to Washington, D.C. this week play an important role. This three-day Summit is an outstanding opportunity to learn from one another about regional specific issues, to work together to find solutions, and to jointly answer a national call to action. Our speakers include a spectrum of leaders from the Federal government, environmental organizations, ocean explorers, authors, playwrights, and even a cartoonist. I hope you will share what you learn at the Summit with others so that they too can become more ocean-literate and join us in our stewardship efforts.

As you plan your future and engage in community activities, I hope the experiences you gain from the Summit will inspire you to pursue paths that protect, preserve, and restore our ocean, coastal, and Great Lakes resources. I encourage you to share what you learn at the Summit with others so that they too can join in our nation's stewardship

Yours Sincerely,

James Connaughton  
Chair, White House Council on Environmental Quality  
Chair, Cabinet Committee on Ocean Policy  
Chair, Coastal America Partnership

NATIONAL STUDENT SUMMIT ON OCEANS & COASTS  
PROGRAM AT-A-GLANCE

SPECIAL EVENTS

DECEMBER 5, 2006

**Welcoming Ceremony & Play**

*A Sense of Wonder*

6:30 p.m.–9:00 p.m., National Academy of Sciences

Dessert Reception to Follow

DECEMBER 6, 2006

**Opening Session:**

**Student Presentations of Regional Action Plans**

8:30 a.m.–5:00 p.m., National Academy of Sciences

Guest Speaker: Robert Ballard, Institute for Ocean Exploration

DECEMBER 6, 2006

**Reception & Dinner**

*50 Ways to Save the Ocean*

6:00 p.m., National Aquarium

7:00 p.m., Pavilion, Ronald Reagan Building

Presentation by Philippe Cousteau, Dave Helvarg, and Jim Toomey

DECEMBER 7, 2006

**Student Presentations to Ocean Experts & Ocean Issues Banquet**

5:30 p.m., Baird Auditorium, Smithsonian Museum of Natural History

6:30 p.m., Atrium Cafe, Smithsonian Museum of Natural History

Presentations by Sylvia Earle, Ocean Explorer & Gregg Marshall,

Crittercam, National Geographic

DECEMBER 8, 2006

**Student Messages & Recommendations to Ocean Policy Leaders**

10:00 a.m., Rustle Senate Office Building (SR-253)

12:00 p.m., Hart Senate Office Building (SH-902)

Presentations followed by Closing Luncheon

AGENDA

TUESDAY, DECEMBER 5TH  
THE NATIONAL ACADEMIES, 2101 CONSTITUTION AVE N.W.

3:00–5:00 pm	<b>Registration for Delegates</b> (Great Hall)
5:00–6:30 pm	<b>Dinner/Mixer for Summit Delegates</b> (Cafeteria)
6:30–8:00 pm	<b>Welcoming Remarks &amp; Introduction of Delegations</b> (Auditorium) Virginia Tippie, Director, Coastal America Partnership
	<b>Keynote:</b> Lynn Scarlett, Deputy Secretary, Department of the Interior
	<b><i>A Sense of Wonder</i></b> , a play about the life and work of Rachel Carson Written & Performed by Kaiulani Lee
	<b>Closing Remarks:</b> Mark Madison, U.S. Fish & Wildlife Service Historian
8:00–9:00 pm	<b>Dessert Reception &amp; Poster Session:</b> Student Action Plan Posters (Great Hall)

WEDNESDAY, DECEMBER 6TH  
THE NATIONAL ACADEMIES, 2101 CONSTITUTION AVE N.W., WASHINGTON, DC

8:30–8:50 am	<b>Opening Remarks and Introductions</b>
	Dr. Wm. A. Wulf, President National Academy of Engineering The National Academies
	Gerhard Kuska, Associate Director for Ocean and Coastal Policy White House Council on Environmental Quality
	<b>Keynote:</b> Dr. Robert Ballard, President, Mystic Aquarium Institute for Exploration and Commissioner, U.S. Commission on Ocean Policy
9:30–12:00 pm	<b>Presentations of Action Plans &amp; Regional Issues by Student Delegations</b> One 15-minute break will be included
	<b>Outreach &amp; Exploration</b> Moderator: Dan Basta, Director, Office of National Marine Sanctuaries, National Oceanic and Atmospheric Administration (NOAA)
	Mystic Aquarium & Institute for Exploration/Immersion Presents: <i>Mentoring At Risk Youth</i> Texas State Aquarium: <i>Ocean Literacy</i> Alaska SeaLife Center: <i>Tidal Power: the controversy, the science and the technology</i> Waikiki Aquarium: <i>Environmental Awareness Perpetuating the Stewardship of Natural Resources</i>
	<b>Living Resources</b> Moderator: Rebecca Lent, Director, Office of International Fisheries, National Marine Fisheries Service, NOAA
	Hatfield Marine Science Center & Oregon Coast Aquarium: <i>Rockfish Bycatch an “in depth” study</i> National Aquarium in Baltimore: <i>The Diamondback Terrapin</i> Dauphin Island Sea Lab: <i>Oyster Gardening</i> The North Carolina Aquarium: <i>Oyster Restoration and Recycling</i>
12:00–1:00 pm	<b>Lunch &amp; group discussions in breakout rooms</b> (Delegates only)
1:00–1:30 pm	<b>Group Photo</b> (Constitution Avenue Steps)

1:30–5:00 pm

**Presentations Cont’d**  
One 15-minute break will be included

**Habitat Restoration**  
Moderator: Mamie Parker, Assistant Director for Fisheries and Habitat Conservation, U.S. Fish & Wildlife Service

IGFA Fishing Hall of Fame and Museum: *The Comprehensive Everglades Restoration Plan (CERP)*  
John G. Shedd Aquarium: *Empowering Chicago Youth to E.N.T.E.R.*  
*(Enjoy Nature Through Environmental Restoration)*  
South Carolina Aquarium: *Restoration of Noisette Creek*

**Pollution & Harmful Algal Blooms**  
Moderator: David Kennedy, Director, Office of Ocean and Coastal Resource Management, NOAA

New York Aquarium: *The State of Borrow Pits*  
The Florida Aquarium: *Florida Red Tide*  
Aquarium of the Pacific: *The Green Student Union (NPS Pollution)*  
Monterey Bay Aquarium: *What is the Source of Nutrients in Elkhorn Slough?*

**Watersheds and Coasts**  
Kacky Andrews, Director, Coastal States Organization

The National Mississippi River Museum & Aquarium: *Pointing to the Source of Runoff*  
NASA Goddard Space Flight Center: *Deforestation in the Chesapeake Bay Watershed*  
J.L. Scott Marine Education Center: *How Redesigning a River Leads to An Environmental Dilemma*

5:00–5:30 pm

**Key Themes/Recommendations from Action Plans**

5:30 pm

**Buses board to depart for Reception and Dinner**

**NATIONAL AQUARIUM IN DC & RONALD REAGAN INTERNATIONAL TRADE CENTER**  
14TH & CONSTITUTION AVE N.W., WASHINGTON, DC

6:00–7:00 pm

**Reception** (National Aquarium in Washington, DC)

**Welcome and Remarks**  
Robert Ramin, Executive Director, National Aquarium in Washington, DC  
David Pittenger, Executive Director, National Aquarium in Baltimore

7:00–9:00 pm

**Banquet:** *Meet the Ocean Community* (Pavilion Room of the Ronald Reagan International Trade Center)

**Welcome and Introductions**  
Ben Grumbles, Assistant Administrator for Water, EPA

**Keynote:** *50 Ways to Save the Ocean*  
Philippe Cousteau, President, EarthEcho; David Helvarg, President,  
Blue Frontier Campaign; Jim Toomey, Sherman’s Lagoon Cartoonist

THURSDAY, DECEMBER 7TH

THE WHITE HOUSE, 1600 PENNSYLVANIA AVENUE, WASHINGTON , DC

8:30 - 8:45 am	Buses board to depart for White House
9:15 -10:15 am	White House Tour (Delegates only)

THE NATIONAL ACADEMIES, 2101 CONSTITUTION AVE N.W., WASHINGTON, DC

10:30 am	Overview of Working Sessions and Facilitation Process (Auditorium) Report out on Wednesday’s presentations and discussions -key themes and recommendations from Action Plans
11:00 am - 12:30 pm	Student Working Sessions: Facilitated break-out sessions to address specific questions and develop national recommendations. (Room assignments to be posted)

Teacher/Educator Workshop: Linking Formal & Informal Education to improve Ocean Literacy (Lecture Room)

12:30 pm - 2:00 pm	Working Lunch
2:00–3:00 pm	Report out on National Messages and Recommendations
3:00 pm	Buses depart for Smithsonian

SMITHSONIAN NATIONAL MUSEUM OF NATURAL HISTORY, 10TH & CONSTITUTION AVE N.W.

3:15–5:30 pm	Self-guided Tour of Smithsonian Museum of Natural History Subgroup Prepare Presentations (Executive Conference Room)
5:30–7:00 pm	Student Presentations to Ocean Experts (Baird Auditorium)  Welcoming Remarks Christian Samper, Director, Natural History Museum

Student Presentations

Ocean Experts Panel  
Jerry Schubel, President, Aquarium of the Pacific (Moderator)  
Richard West, President, Consortium for Oceanographic Research & Education  
Paul Boyle, President and CEO, The Ocean Project  
Tom Fry, President, National Ocean Industries Association  
Vikki Spruill, President, Ocean Conservancy  
Jerry Enzler, Director, National Mississippi River Museum & Aquarium

7:00–8:30 pm	Reception & Banquet: Meet our Ocean Leaders (Atrium Café)  Welcome and Introductions James Connaughton, Chairman, White House Council on Environmental Quality  Keynote: Sylvia Earle, Ocean Explorer and National Geographic Society Explorer-in-Residence
8:30–9:30 pm	National Geographic Critter Cam Presentation by Greg Marshall (Baird Auditorium)

FRIDAY, DECEMBER 8TH

UNITES STATES SENATE, RUSSELL AND HART SENATE OFFICE BUILDINGS, WASHINGTON, D.C

Host: Senator Ted Stevens (AK), Chairman, Commerce, Science & Transportation Committee

8:00 - 8:15 am	Buses Depart for Capitol Hill
8:30–10:00 am	Tours of Capitol Building and/or Student Delegations meet their Congressional Leaders/Staff
10:00 am–11:45 am	Student Presentation of National Messages and Recommendations to Administration and Congressional Officials (Russell Senate Office Building, SR -253)

Introduction of Student Delegations  
David Pittenger, Executive Director, National Aquarium in Baltimore

Report from Students

Report from Teachers and Educators  
Jerry Schubel, President, Aquarium of the Pacific

Response from Congressional and Administration Officials  
Moderator- Scott Gudes, Staff Director, Senate Committee on the Budget

Congressional Officials:  
Senator Ted Stevens (invited),  
Senator Barbara Mikulski (invited)  
Congressman Sam Farr, Co- Chair House Oceans Caucus  
Congressman Thomas H. Allen, Co- Chair House Oceans Caucus

Administration Officials:  
Benjamin Grumbles, Assistant Administrator for Water, Environmental Protection Agency  
Timothy Keeney, Deputy Assistant Secretary for Oceans, Commerce  
Merlyn Carlson, Deputy Under Secretary for Natural Resources & Environment, Agriculture  
Donald Schregardus, Deputy Assistant Secretary for Environment, Navy

12:00–2:00 pm	Luncheon on Capitol Hill (Hart Senate Office Building, SH-902)
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Closing Remarks Looking to the Future  
James Connaughton, Chairman, Chairman, White House Council on Environmental Quality

Recognition of Coastal America’s Coastal Ecosystem Learning Centers  
Executive Committee: Jerry Schubel, President, Aquarium of the Pacific;  
David Pittenger, Executive Director, National Aquarium in Baltimore;  
Jerry Enzler, Director, National Mississippi River Museum & Aquarium

Presentation of Action Plan Awards to Student Delegations  
Sylvia Earle, Trustee, Coastal America Foundation and  
Jan Ross, Executive Director & Peter Trick, Executive Vice-President, The Newton-Marasco Foundation

Recognition Ceremony & Presentation of Certificates to Students

STEERING COMMITTEE

Chair, Virginia K. Tippie  
The Coastal America Partnership

Dr. Louisa Koch  
National Oceanic and Atmospheric Administration

Ginger Potter  
U.S. Environmental Protection Agency

Susan Roberts  
National Academy of Sciences

Lisa Rom  
The National Science Foundation

Marsha Semmel  
Institute for Museum and Library Services

Robert Winokur  
Office of the Oceanographer of the Navy

COASTAL ECOSYSTEM LEARNING CENTER  
EXECUTIVE STEERING COMMITTEE

Ted Beattie  
John G. Shedd Aquarium

Jerry Enzler  
National Mississippi River Museum & Aquarium

David Pittenger  
National Aquarium in Baltimore

Dr. Jerry Schubel  
Aquarium of the Pacific

A special thanks to the wonderful staff and volunteers who made the National Student Summit on Oceans and Coasts possible, including: Jacqueline Bell, Janice Hall, and Will Nuckols of Coastal America; Ludmilla Savelieff, Council on Environmental Quality; Nancy Caputo, National Academy of Sciences; Jane Swenson, Office of Senator Ted Stevens; Kristen-Chader-Bostick, NOAA Coastal Services Center; and Sea Grant Fellows.

WORKING COMMITTEE

Chair, Marguerite Duffy, Coastal America Partnership

Jeff Benoit, SRA

Nicole Clarke, SRA

Dr. Len Hirsch, Smithsonian National Museum of Natural History

Chris Darnell, Department of Interior, U.S. Fish & Wildlife Service

Dr. Frank Hall, The National Academy of Sciences

Dr. Marlene Kaplan, National Oceanic and Atmospheric Administration

John McLeod, National Oceanic and Atmospheric Administration

Joe Piehuta, Department of Interior, U.S. Fish & Wildlife Service

Lucinda P. Power, Coastal America Partnership

Kenli Schaaf, Office of the Oceanographer of the Navy

Abby Swetz, Institute for Museum and Library Services

COASTAL ECOSYSTEM LEARNING CENTER  
PLANNING COMMITTEE

Dana Sitzler, Alaska Sea Life Center

Amy Coppenger, Aquarium of the Pacific

Dr. John Dindo, Dauphin Island Sea Lab

Debbi Berger, The Florida Aquarium

Ken Hall, Hatfield Marine Science Center & Oregon Aquarium

Dawn Miller Walker, IGFA Fishing Hall of Fame & Museum

Rita Bell, Monterey Bay Aquarium

Katie James, Immersion Presents and Institute for Exploration & Mystic Aquarium

Vicki Fabiyi, National Aquarium in Baltimore

Mark Wagner, National Mississippi River Museum & Aquarium

John Anderson, New England Aquarium

Peggy Sloan, North Carolina Aquariums

Dr. Merryl Kafka, New York Aquarium

Whitt McMillian, South Carolina Aquarium

Tara Schultz, Texas State Aquarium

Mark Heckman, Waikiki Aquarium

Rachel Bergren, John G. Shedd Aquarium

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John P. Leck, NASA Goddard Space Center

Dr. Sharon Walker, J.L. Scott Aquarium, COSEE, MS-AL Sea Grant Consortium

The 2006 National Student Summit on Oceans & Coasts

Coastal Ecosystem Learning Center Action Plans

Alaska Sea Life Center  
Tidal Power: the controversy, the science and the technology

Aquarium of the Pacific  
The Green Student Union  
(Non-point source pollution)

Dauphin Island Sea Lab  
Oyster Gardening

The Florida Aquarium  
Florida Red Tide

Hatfield Marine Science Center & Oregon Coast Aquarium  
Rockfish Bycatch: An In-Depth Study

IGFA Fishing Hall of Fame and Museum  
The Comprehensive Everglades Restoration Plan (CERP): Is it helping or hurting South Florida?

John G. Shedd Aquarium  
Empowering Chicago Youth to E.N.T.E.R (Enjoy Nature Through Environmental Restoration)

Monterey Bay Aquarium  
What is the source of nutrients in Elkhorn Slough?

Mystic Aquarium & Institute for Exploration/Immersion Presents  
Mentoring At-Risk Youth

National Aquarium in Baltimore  
The Diamondback Terrapin

National Mississippi River Museum & Aquarium  
Pointing to the Source of Runoff

New York Aquarium  
The State of Borrow Pits

The North Carolina Aquariums  
North Carolina Oyster Restoration & Recycling

South Carolina Aquarium  
Restoration at Noisette Creek

Texas State Aquarium  
Ocean Literacy

Waikiki Aquarium  
Environmental Awareness: Perpetuating the Stewardship of Natural Resources

Partnering Delegations

J.L. Scott Marine Education Center  
How Redesigning a River Leads to an Environmental Dilemma

NASA Goddard Space Flight Center  
Deforestation in the Chesapeake Bay Watershed

The 2006 National Student Summit on Oceans & Coasts

Coastal Ecosystem Learning Center Delegations

Alaska Sea Life Center  
Allison Barnwell  
Andy Cloward  
Carolyn Nichols\*  
Corbin Hohl  
Dan Krier\*  
Dana Sitzler\*  
Malia Sutphin

Aquarium of the Pacific  
Anthony Chavez  
Catherine Fox\*  
Chanel Washington  
Eddie Benford  
Ellie Paniagua  
Erica Kelly\*

Dauphin Island Sea Lab  
Alex Callister  
Darrel Wright  
Gabe Denton  
Hazel Wilson\*  
Lynn Stewart\*  
Shaun Jenkins

The Florida Aquarium  
Bianca Zebold  
Carlos LaLuz  
Debbi Berger\*  
J.V. Goodman  
Kristy Loman Chiodo\*  
Monica Hopkins

Hatfield Marine Science Center & Oregon Coast Aquarium  
Alexander Rose  
Alice Anderson  
Jenna Browning-Kamins  
Lauren Dimock  
Renee Rensmeyer\*  
Tina Smith\*

IGFA Fishing Hall of Fame and Museum  
Ana Valles  
Brad Spearow  
Dawn Miller-Walker\*  
Gail Valenti\*  
Jordy Gelman  
Stefano Madrigal

J.L Scott Marine Education Center  
Elly Jackson  
Grace Serio  
Kate Ma  
Madison Gattis

Ruthie Hollis\*  
Sandra Hindsman\*  
Sharon Walker\*

John G. Shedd Aquarium  
Andrew Woodley  
Beth Wilkin\*  
Cathy Smith  
Christian Greer\*  
Heather Schneider\*  
Joy Kubarek-Sandor\*  
Selenia Caraveo

Monterey Bay Aquarium  
Gary Martindale\*  
Jenny de la Hoz\*  
Anne Martinete  
Gina Carrillo  
Isaac Espinoza  
Josue Ortiz

Mystic Aquarium & Institute for Exploration/Immersion Presents  
Jennifer DeLeon  
Jill DeWerdt\*  
Katie James\*

NASA Goddard Space Flight Center  
Billy Coulter  
David Miller  
John Leck\*  
Laura Buchanan  
Laura Dinerman\*  
Matt Miller

National Aquarium in Baltimore  
Christina Rice  
Desirae Pack  
Fonte Goggins  
Kathy Siegfried\*  
Marcus Elmore  
Ransom Livingston  
Sandeep Jandu  
Vicki Fabiyi\*

National Mississippi River Museum and Aquarium  
Becky Klauer  
Brandi Streauslin  
Glenda Davis\*  
Marissa Collins  
Mark Wagner\*  
Matthew Zmudka  
Nicole Runde

New York Aquarium  
Clara Perez  
Daniel Gomez  
Danielle Neubauer\*  
Michelle Vermonty\*  
Rodney Echevarria  
Violet Slayback

The North Carolina Aquariums  
Bryan Bishop\*  
Josh Jenness  
Mary Greer  
Matt Albee  
Peter Nemmers  
Stefanie Misner\*

South Carolina Aquarium  
Casey O'Shea  
Jane Kim  
Jesse O'Shea\*  
Kathy Kowalchick\*  
Katy Metzner-Roop\*  
Shivani Gupta  
Si'Ara Shalai Washington

Texas State Aquarium  
Ashley Latimer  
Colin MacDonald  
Francie Dellinger  
Johnnie Smith\*  
Kathy Westerman\*  
Matt Garza

Waikiki Aquarium  
Celeste Yee  
Ilorra Fern  
James Springer  
Mark Heckman\*  
Robert Hutchison\*  
Sean Gershaneck

Participating Non-Delegation Representatives

The New England Aquarium  
Hope LaFitte  
Jenna Sigman\*  
John Anderson\*

\*Educators/teachers

## Bios for Key Speakers and Staff

### U.S. Representative Tom Allen

Congressman Tom Allen is currently serving his fifth term in the U.S. House of Representatives. Tom Allen serves on the House Energy and Commerce Committee and is a co-chair of the bipartisan House Oceans Caucus. Tom Allen has been a leader in the effort to stop attempts to weaken our nation’s landmark environmental statutes. Born in Portland, Maine in 1945, Tom attended Portland’s public schools and graduated from Bowdoin College in 1967. After earning a B.PhD in Politics as a Rhodes Scholar at Oxford University, Tom worked for Senator Edmund S. Muskie and then attended Harvard Law School, graduating in 1974. In 1968, Tom married his high school classmate, Diana Bell. They have two daughters.

### Katherine ‘Kacky’ Andrews

Katherine “Kacky” Andrews is the Executive Director of Coastal States Organization. Kacky has extensive experience with coastal issues, having served most recently as the Director of Coastal and Aquatic Managed Areas at the Florida Department of Environmental Protection. In this position, Kacky effectively managed millions of acres of coastal habitats, instituted an effort to engage local communities in the management of Florida’s coastal protected areas, and helped launch an alliance of the Gulf States to improve the environmental condition of the Gulf of Mexico. Kacky also worked closely with the Florida State Legislature to pass the Florida Oceans and Coastal Resources Management Act, which created the Florida Ocean and Coastal Research Council. Prior to joining the state, she was the Director of Government Relations with the Florida Chapter of The Nature Conservancy. Kacky is a native Floridian, with a degree in economics from Duke University, a law degree from the University of Florida and a masters in natural resources law from the Northwestern School of Law at Lewis & Clark College in Portland.

### Bob Ballard

President of the Institute for Exploration at Mystic Aquarium and Institute for Exploration, Dr. Bob Ballard is best known for his 1985 discovery of the Titanic. Since that time, he and his team have succeeded in tracking down numerous other significant shipwrecks. Along with his team from the Institute for Exploration, he has initiated a series of live expeditions and new telepresence efforts which provide live underwater images from national marine sanctuaries and other locales. Committed to both formal and informal education efforts, Dr. Ballard has created the Jason Project to reach children in classrooms, and Immersion Presents to take telepresence technology to children through Boys and Girls Clubs nationwide. Dr. Ballard has a Ph.D in marine geology and geophysics from the University of Rhode Island, in addition to 13 honorary degrees.

### Daniel J. Basta

Daniel J. Basta was named as the director for the Office of National Marine Sanctuaries in January 2001, NOAA’s agency that is committed to preserving historical, cultural and archaeological resources and seeks to increase public awareness of America’s maritime heritage by conducting scientific research, monitoring, exploration and educational programs. Mr. Basta has 30 years’ experience in environmental quality and natural resources assessment and management throughout the United States and abroad, including Europe, Australia, Mexico, China, and Canada. Before joining NOAA, Mr. Basta held positions at Resources for the Future in Washington, DC, the Environmental Studies Board of the National Academy of Sciences, and John Hopkins University. Before returning to graduate school to focus on environmental and natural resources management, he worked as an engineer in the aerospace industry, and as a management consultant. He has a bachelor’s of science in industrial engineering from Hofstra University and a master’s of science in engineering and policy sciences from the State University of New York at Stony Brook.

### Merlyn Carlson

Merlyn Carlson was appointed Deputy Under Secretary to USDA’s Natural Resources and Environment in June 2005. Carlson’s main responsibility is overseeing the Natural Resources Conservation Service. He is a strong proponent of leaving our nation’s natural resources entrusted to the people’s care. Throughout his career and his own farming operation, Carlson has established a long history of stewardship and conservation. He is a native Nebraskan, who grew up in

the Lodgepole area. He attended the University of Nebraska-Lincoln, and later graduated from Colorado State University with a Bachelor of Science degree in agriculture, majoring in animal science. He and his wife, Janice, have two grown daughters, Debra and Chris.

### James L. Connaughton

James L. Connaughton was unanimously confirmed by the United States Senate on June 14 and appointed by President Bush on June 18, 2001 to serve as the Chairman of the Council on Environmental Quality (“CEQ”). In this capacity, he serves as the senior environmental advisor to the President as well as Director of the White House Office of Environmental Policy, which oversees the development of environmental policy, coordinates interagency implementation of environmental programs, and mediates key policy disagreements among Federal agencies, state, tribal and local governments and private citizens. Mr. Connaughton is a graduate of Yale University and graduated second in his class, magna cum laude, Order of the Coif, from the Northwestern University School of Law.

### Philippe Cousteau

Philippe Cousteau is the 26 year-old son of Jan and Philippe Cousteau Sr., and the grandson of Captain Jacques-Yves Cousteau. As a member of the legendary family, Philippe continues the work of his father and grandfather by educating the public about environmental and conservation issues and inspiring individuals to become better stewards of our water planet. He founded EarthEcho International with his sister and his mother to work toward these goals. Philippe was recently named Chief Ocean Correspondent for Discovery’s Animal Planet Channel, where he is creating a series of ocean documentary programs. Philippe’s travels have taken him diving, rock climbing, trekking, and snowboarding around the world. From expeditions in the highlands of New Guinea to war-torn Sarajevo, where he provided humanitarian aid, he has learned that exploring the connections between humans and the environment is as important as exploring nature itself.

### Sylvia Earle

Known as ‘Her Deepness’ and ‘The Sturgeon General,’ Dr. Sylvia Earle serves as Director for Global Marine Conservation at Conservation International, is a National Geographic Society Explorer-in-Residence, and is the former Chief Scientist of the National Oceanic and Atmospheric Administration (NOAA). In 1992 she founded Deep Ocean Exploration and Research (DOER) which provides support services for projects sponsored by the Goldman Foundation, National Geographic Society and NOAA. Dr. Earle has also written three books for the Society, two children’s titles, and Wild Ocean: America’s Parks Under the Sea. She is an oceanographer with a B.S. degree from Florida State University, and a M.S. and Ph.D from Duke University. Dr. Earle also serves as a Trustee of the National Marine Sanctuary Foundation and the Coastal America Foundation..

### Jerry Enzler

Jerry Enzler is the Executive Director of the National Mississippi River Museum and Aquarium in Dubuque, Iowa, a Coastal Ecosystem Learning Center. He was President of the America’s River Corporation and key leader in the concept and implementation of the project. He also served as the creative director, researcher, and script writer for the exhibits at the new museum and aquarium. Mr. Enzler has appeared on the History Channel, as well as public television and radio in the U.S., Germany, and Japan. For more than 28 years, he has directed over 200 museum projects supported by the Institute of Museum and Library Services, the National Endowment for the Humanities, the National Park Service and others.

### U.S. Representative Sam Farr

Congressman Sam Farr, a fifth-generation Californian, represents the state’s beautiful Central Coast. Throughout his 12-year tenure, Farr has been a leading advocate for California agriculture, an outspoken activist for affordable housing and a champion of the environment. Farr now sits on the powerful House Appropriations Committee and on two subcommittees - Agriculture and Military Quality of Life and Veteran’s Affairs.† He co-chairs the House Oceans Caucus and the House Travel and Tourism Caucus. He graduated from Willamette University in Salem, Oregon and attended Monterey Institute of International Studies and the University of Santa Clara. He began his career in public service in 1964 serving in the Peace Corps in Colombia. He was raised in Carmel, California, and is married to Shary Baldwin Farr. They have one grown daughter, Jessica.

### Tom Fry

Tom Fry is president of the National Ocean Industries Association (NOIA), the only trade association representing all facets of the offshore energy exploration and production business. Prior to joining NOIA, Fry served as the Director of the Department of the Interior’s Bureau of Lands Management. Fry first joined the Department of Interior as the Director of the Minerals Management Service, where he was responsible for regulatory oversight of the exploration, development, and production of oil, gas, and other minerals on the nation’s Outer Continental Shelf. A long-time Texas resident, Tom earned a law degree from Southern Methodist University Law School in 1969, and a bachelor’s degree from Trinity University in 1966.

### U.S. Representative Wayne Gilchrest

During his tenure in Congress, Wayne Gilchrest has emerged as a strong voice for fiscal responsibility and environmental protection. He has dedicated his attention to protecting and preserving the delicate environment of the Chesapeake Bay region. In addition, Gilchrest serves as Chairman of the House Subcommittee on Fisheries and Oceans and oversees the management of our nation’s fisheries. Gilchrest has an ambitious agenda as chairman, and hopes to focus attention on the maintenance problems plaguing our wildlife refuges. He will also be reviewing our nation’s fisheries management, and recommending changes to that important system. As co-chair of the bipartisan Ocean’s Caucus, Gilchrest promotes the need to protect our oceans. Congressman Gilchrest and his family spent part of 1986 living in the Idaho wilderness where he worked for the Forest Service in the Bitterroot National Forest. The experience gave him a greater appreciation for the sanctity of our federal lands and the environment. Wayne and his wife, Barbara, have three children and one daughter-in-law. They live on Maryland’s Eastern Shore.

### Benjamin Grumbles

Mr. Benjamin H. Grumbles was appointed Deputy Assistant Administrator for the Office of Water at U.S. EPA in February of 2002. Before coming to EPA, Mr. Grumbles was Deputy Chief of Staff and Environmental Counsel for the House Science Committee since February 2001. Prior to that, he was Senior Counsel for the Water Resources and Environment Subcommittee of the Transportation and Infrastructure Committee. He is also an adjunct professor of law at the George Washington University Law School, as well as a member of the faculty advisory board of the Environmental Law and Policy Program at the USDA/ Graduate School. He currently teaches courses in water pollution control, the Clean Water Act, and environmental policy. Mr. Grumbles has written numerous articles on water quality, wetlands, water resources management, oil spills, hazardous waste, and environmental policy. His degrees include a B.A., Wake Forest University; J.D., Emory University; and LL.M. in Environmental Law, the George Washington University Law School.

### Scott B. Gudes

In January 2005, Scott B. Gudes was appointed to serve as the new Senate Budget Committee Staff Director. Gudes is a former employee of the Office of Management and Budget, as well as the Defense Department, both Senate and House Appropriations Committees, and former head of the National Oceanic and Atmospheric Administration. Mr. Gudes was born and raised in California and studied at the University of Liverpool, United Kingdom, and in California, where he graduated from San Diego State University in 1976. He earned his Masters of Public Administration from California State University at Fullerton two years later. He served as a Presidential Management Intern after graduate school, working in the Office of the Secretary of Defense. An avid recreational fisherman, golfer and SCUBA diver, Mr. Gudes highly values marine and coastal conservation and is a champion of NOAA’s critical role as the nation’s ocean resource steward.

### David Helvarg

David Helvarg is President of the Blue Frontier Campaign (www.bluefront.org) and the author of three books, *Blue Frontier- Dispatches from America’s Ocean Wilderness*, *50 Ways to Save the Ocean* and *The War Against the Greens*. He’s editor of the Ocean and Coastal Conservation Guide, organizer of several Blue Vision conferences for ocean activists, and winner of Coastal Living Magazine’s 2005 Leadership Award. Helvarg worked as a war correspondent in Northern Ireland and Central America, covered a range of issues from military science to

the AIDS epidemic, and reported from every continent including Antarctica. An award-winning journalist, he produced more than 40 broadcast documentaries for PBS, The Discovery Channel, and others. His print work has appeared in publications including The New York Times, LA Times, Smithsonian, Popular Science, and Sierra. He’s done radio work for Marketplace, AP radio, and Pacifica. He’s led workshops for journalists in Poland, Turkey, Tunisia, Slovakia and Washington DC. He is a licensed Private Investigator, body-surfer and scuba diver.

### Timothy R.E. Keeney

On April 8, 2002, Timothy R.E. Keeney was sworn in as DAS for Oceans and Atmosphere. At NOAA, Keeney is responsible for environmental policy, strategic planning and program analysis. Keeney’s major responsibilities include cross-cutting programs such as coral reefs, invasive species, habitat restoration and observation systems. During his career, Keeney has held several environmental management and regulatory positions, including NOAA general counsel, and Director of Ocean and Coastal Resource Management at the NOAA Oceans and Coasts Service. Keeney earned a bachelor’s degree from the Wharton School of Business at the University of Pennsylvania in 1970 and a doctor of laws degree from the University of Connecticut School of Law in 1976. He also completed the environmental leadership program at Yale University’s School of Forestry and Environmental Studies. Mr. Keeney and his wife, Mary, have five children: Clinton, Timothy, Jr., Emily, Lucy and Grace.

### David M. Kennedy

David Kennedy has served as the Director of the National Oceanic and Atmospheric Administration’s (NOAA) Office of Ocean and Coastal Resource Management since May 2006. In this position, David directs a multi-disciplinary program that provides national leadership, strategic direction, and guidance to state and territory coastal programs and estuarine research reserves. He oversees efforts to develop a scientifically-based, comprehensive national system of marine protected areas (MPAs) in conjunction with state and territory coastal resource managers. He also manages the NOAA Coral Reef Conservation Program, whose goal is to support effective management and sound science to protect, sustain, and restore coral reef ecosystems. Prior to his current position he served as Director of NOAA’s Office of Response and Restoration. In this position he directed a multi-disciplinary program to reduce risks to coastal and marine resources from environmental threats including oil and chemical spills, hazardous waste sites and vessel grounding. He is a graduate of the University of Northern Colorado (1969).

### Louisa Koch

Louisa Koch became the Director of Education for the National Oceanic and Atmospheric Administration (NOAA) in October, 2005. NOAA’s education program focuses on developing the next generation of professionals in the NOAA sciences and related areas and promoting environmental literacy about the role of oceans, coasts and atmosphere in the global ecosystem. Ms. Koch served as NOAA’s Deputy Assistant Administrator for NOAA Research and as acting Assistant Administrator of NOAA Research for one year. Before joining NOAA, Ms. Koch held several positions at the Office of Management and Budget, including Commerce Branch Chief. She was a Presidential Management Intern at the Department of Defense and an economist at the Joint Economic Committee, U.S. Congress.

### Gerhard F. Kuska

Dr. Gerhard F. Kuska is an Associate Director in the White House Council on Environmental Quality (CEQ) where he serves as the Director of Ocean and Coastal Policy. In this role he provides advice to the President and to the Chairman of the Council on Environmental Quality, who chairs the cabinet-level Committee on Ocean Policy, on a broad range of ocean, coastal, and maritime policy issues. Dr. Kuska oversees the implementation of the President’s Ocean Action Plan including the Executive Secretariat for the Committee on Ocean Policy, and, together with the White House Office of Science and Technology Policy, the secretariat activities for the deputies-level Interagency Committee on Ocean Science and Resource Management Integration. He also serves as a co-chair of the Subcommittee on Integrated Management of Ocean Resources and a principal on a number of related interagency committees. Dr. Kuska holds a Ph.D. in Marine Studies from the University of Delaware, where he conducted research on U.S.

federal interagency collaboration in the ocean policy arena. Together with his wife and daughter, Dr. Kuska splits his time between a home in coastal Delaware and the Washington D.C. area.

##### Kaiulani Lee

Kaiulani Lee brings to the writing and acting of *A Sense of Wonder* over 35 years of experience in theatre, film and television. She has starred in over a dozen plays on and off-Broadway, has been nominated for the Drama Desk Award on Broadway and won an OBIE Award for outstanding achievement off-Broadway. Her television series work ranges from *The Waltons* to *Law & Order* in addition to numerous movies of the week. Her film debut was in *The World According to Garp* and continues through *A Civil Action*. In the critically acclaimed PBS film, *A Midwife’s Tale*, she starred as the midwife, Martha Ballard. The reviews for her performances in *A Sense of Wonder* range from Miss Carson’s biographer, Paul Brooks writing, “...This is the Rachel I knew brought to life with almost uncanny skill and understanding...” to Peter Dykstra of CNN “...Kaiulani Lee’s performance gave me the opportunity to feel I had met this remarkable woman and experienced the quiet courage of Rachel Carson.” In addition to Ms. Lee’s full commitment to getting Miss Carson’s story out to audiences across the world, she is on the faculty of George Mason University’s Theatre Department and the New York University’s Film School. She has been awarded an honorary doctorate from Bowdoin College for her contribution to and excellence in the performing arts.

##### Rebecca Lent

Rebecca Lent began serving as Director of the new Office of International Affairs, in July 2005. The new office was created due to the increasing importance of international fisheries issues. Previously, Dr. Lent was Deputy Assistant Administrator for Regulatory Programs at NOAA Fisheries, a position she held since 2001. In that capacity, she reviewed all of NOAA Fisheries’ proposed regulatory actions, including those to support protected resources, sustainable fisheries, and habitat conservation in both the national and international arenas. Dr. Lent joined NOAA in 1992, serving as the economist and later as the Chief of the Atlantic Highly Migratory Species Management Division. She has broad experience in dealing with a wide variety of controversial fishery management issues affecting fishermen, conservationists, business, and communities. Dr. Lent was appointed Southwest Regional Administrator in 2000 and in this capacity directed NOAA’s fisheries management and science programs in the southwestern United States, Hawaii, and the U.S. Trust Territories. She earned her Ph.D. in resource economics from Oregon State University in 1984 and holds a master’s degree in economics (1978) and a bachelor’s degree (1975).

##### Mark Madison

Mark Madison is currently the U.S. Fish and Wildlife Service historian stationed at the agency’s National Conservation Training Center (NCTC) in Shepherdstown, WV. He has degrees in History and Biology and a doctorate in the History of Science from Harvard University. Madison has taught conservation history, conservation biology, and environmental history and ethics at Harvard University and the University of Melbourne (Australia). He now teaches at NCTC and oversees a Conservation Archive which includes letters, books, and artifacts of Rachel Carson. He is currently designing a traveling Carson museum display for the 2007 Rachel Carson centennial.

##### Greg Marshall

In practice, Mr. Marshall is a marine biologist, inventor, filmmaker, producer, and cinematographer. Marshall earned an undergraduate degree in International Relations from Georgetown University and a Masters degree in Marine Environmental Science from SUNY Stony Brook, and began his career as a freelance photojournalist and cameraman. In 1991 Marshall joined National Geographic Television and established the Special Projects Unit, where he pioneered CRITTERCAM technology. He is a two-time Emmy Award winner for Cinematography and Sound. Recently, Marshall produced a 13-part scientific adventure series, called CRITTERCAM Chronicles, for the National Geographic Channel. Crittercam technology was also featured in the blockbuster film March of the Penguins.

##### U.S. Senator Barbara A. Mikulski

Growing up in the Highlandtown neighborhood of East Baltimore, Mikulski learned the values of hard work, neighbor helping neighbor and heartfelt patriotism. Mikulski became a social worker in Baltimore, helping at-risk children and

educating seniors about the Medicare program. Her first election was a successful run for Baltimore City Council in 1971, where she served for five years. In 1986, she ran for Senate and won, becoming the first Democratic woman Senator elected in her own right. She was re-elected with large majorities in 1992, 1998 and 2004. Mikulski’s experiences as a social worker and activist provided valuable lessons that she draws on as a United States Senator. A leader in the Senate, Mikulski is the Dean of the Women – serving as a mentor to other women Senators when they first take office. She believes her constituents have a right to know, a right to be heard and a right to be represented. She listens to her constituents and makes the personal, political. She is a ranking member of the Senate Appropriations Committee responsible for ocean programs.

##### Mamie Parker

Mamie Parker is the Assistant Director for Fisheries and Habitat Conservation in the U.S. Fish and Wildlife Service. She is also responsible for more than 70 Ecological Services offices in all 50 states. In September, 1999, Parker was appointed the Service’s Deputy Regional Director and Regional Director of the 13 Northeast States, headquarters in Hadley, Massachusetts. She subsequently moved from Hadley to Washington to serve in her current position as the Assistant Director for Fisheries and Habitat Conservation, where she continues to work with partners to move the Fisheries and Habitat Conservation program through its strategic planning process, contributing to healthy fish, healthy habitat, healthy people and a healthy economy. She and her husband, Artist, make their home in Northern Virginia.

##### David M. Pittenger

Under Mr. Pittenger’s tenure, the National Aquarium in Baltimore has adopted a strategic planning process that guides the organization’s day-to-day work and long-term activities. In collaboration with the Board of Governors, he is guiding the continuing development of the Master Plan adopted in 1998 and the coordination of the fundraising efforts to support the Master Plan. Mr. Pittenger received his B.S. from Cornell University and his M.A from University of Pennsylvania. He originally joined the Aquarium in 1979 and has held increasingly responsible positions including Director of Education, Project Manager for construction of the \$40 million Marine Mammal Pavilion and Senior Director of Programs. He was appointed Deputy Executive in 1992 and appointed Executive Director of the Aquarium in January 1995. He has also served as Executive Director of the Gulf of Maine Aquarium and has held positions at the Everglades National Park and the Academy of Natural Sciences in Philadelphia. As Executive Director, he is responsible for all operations of the Aquarium.

##### Cristián Samper

Cristián Samper (sam-PAIR) is the Director of the Smithsonian National Museum of Natural History, based in Washington DC. He was raised in Colombia and studied biology at the Universidad de Los Andes in Bogotá. He obtained his Master’s and PhD degrees in biology from Harvard University, where he was awarded the Derek Bok award for excellence in teaching. His research focuses on the ecology and evolution of Andean cloud forest plants, and he has published and lectured extensively around the world on topics related to conservation biology and science policy. He is actively involved in a wide range of international initiatives related to science and environment, including the UNEP World Conservation Monitoring Centre, the Center for International Forest Research (CIFOR) and the science advisory panel of the Global Environment Facility (GEF). He was appointed Director of the National Museum of Natural History in 2003, where he is responsible for managing the largest natural history collection in the world (125 million specimens and artifacts), overseeing scientific staff that produces more than 500 research publications each year and hosting six million visitors annually.

##### P. Lynn Scarlett

Lynn Scarlett is the Deputy Secretary of the Department of the Interior, after having served as Deputy Secretary for the Department and the Department’s Assistant Secretary for Policy, Management and Budget. Ms. Scarlett serves on the Executive Committee of the President’s Management Council and she co-chairs the President and First Lady’s Preserve America initiative on historic preservation and heritage tourism. Prior to joining the Bush Administration in 2001, she was President of the Los Angeles-based Reason Foundation, a nonprofit current affairs research and communications organization. She is author of numerous publications on incentive-based environmental policies. Ms. Scarlett received her B.A. and M.A. in political science from the University of California, Santa Barbara,

where she also completed her Ph.D. coursework and exams in political science and political economy.

##### Donald R. Schregardus

Donald R. Schregardus has over 25 years of service with federal and state environmental protection agencies. He was appointed Deputy Assistant Secretary of the Navy (Environment) in November 2001 and as such reports to the Assistant Secretary of the Navy (Installations and Environment). Mr. Schregardus is the principal policy advisor on environmental programs, including conservation of natural and cultural resources, compliance with environmental laws and regulations, cleanup of contaminated sites, and programs for pollution prevention. Mr. Schregardus received a Bachelors of Science degree in Physics in 1972 and a Masters of Environmental Sciences degree in 1974 from Miami University, Oxford Ohio. He is married to Sue, his wife of 28 years, and has two grown daughters Katharine and Sarah.

##### Jerry R. Schubel

Jerry Schubel has been President of the Aquarium of the Pacific since 2002, and also directs the Aquarium’s Marine Conservation Research Institute. He has served on a number of National Research Council commissions, committees, and boards and chaired the Marine Board. He is past chair of the National Sea Grant Review Panel and has served on the National Science Foundation’s Education and Human Resources Advisory Council, and US EPA’s Science Advisory Board. Dr. Schubel is President Emeritus of the New England Aquarium, where he was President and CEO from 1994 to 2001. He has written extensively for both scientific journals and for general audiences, and is author/editor of six books and has more than 200 scientific papers to his credit. From 1974-1994 he was Dean and Director of the University at Stony Brook’s Marine Sciences Research Center.

##### Vikki Spruill

Vikki Spruill is President of the Ocean Conservancy, a major non-governmental organization concerned with promoting healthy and diverse ocean ecosystems. Prior to joining The Ocean Conservancy, Spruill was Executive Director of SeaWeb, a nonprofit organization using education and marketing techniques to broaden awareness of ocean conservation. Prior to joining SeaWeb, Vikki Spruill’s job at Ruder Finn (and earlier at Peabody Fitzpatrick Communications) was to promote food products to shoppers, restaurants, and grocery chains. She was considered an expert in the fine art of monitoring consumer trends, and her office boasted openly about its wide “network of food industry professionals... who are expert at the various aspects of marketing communications.” In addition to her role with SeaWeb, Spruill is Managing Director of COMPASS (Communications Partnership for Science and the Sea), a Pew- and Packard-funded Washington PR office for ocean issues. She was also appointed to the board of directors at Environmental Media Services, the green-media-spinning arm of Fenton Communications, in February 2002.

##### U.S. Senator Ted Stevens

A member of the Senate for 37 years, Senator Ted Stevens is Alaska’s senior Senator. Stevens’ tenure in the Senate makes him the fourth-most senior member among his colleagues, and first among Republicans. Stevens is also the Chairman of the Senate Committee on Commerce, Science, and Transportation, which has oversight of the Departments of Commerce and Transportation. In addition, the Committee’s broad jurisdiction covers issues including telecommunications, fisheries, oceans and maritime policy, the Coast Guard, aviation (including the Transportation Security Administration), rail, highway safety, global climate change, interstate commerce, space, science, technology, economic development, trade, tourism, consumer issues, product safety, and sports. Senator Stevens is married to Catherine Ann Chandler of Anchorage, a fourth generation Alaskan. They have one child and eleven grandchildren. He also has five other children by his first wife Ann Cherrington of Denver, now deceased. Three of Stevens’ six children currently reside in Alaska.

##### Virginia K. Tippie

Virginia Tippie is the founding director of Coastal America, an innovative federal program that combines federal, state, local and private resources and expertise in a working partnership to restore and protect the coastal environment. The partnership has restored thousands of acres of wetlands, re-estab-

lished hundreds of mile of spawning streams, mitigated sources of pollution and protected endangered species. To promote public awareness of coastal and marine issues, the partnership has also established a Coastal Ecosystem Learning Center Network of 22 aquaria, museums and science centers. Tippie is widely recognized for her skill in encouraging cooperation and compromise among disparate interests. As Director of the EPA Chesapeake Bay Program she coordinated a major research effort and brokered the first federal multi-state agreement to restore and protect the Chesapeake Bay in the 80’s. The Chesapeake Bay Program is now an internationally-acclaimed partnership model for environmental restoration and protection efforts. In the early 90’s, as Assistant Administrator of NOAA, she facilitated the establishment of a global ocean observing system, modernized the charting program, expanded the marine sanctuary program and improved pollution monitoring and response capabilities. Working with her counterparts in other agencies, she developed the concept of the Coastal America partnership process to enable the federal government to more effectively address the nation’s coastal crisis.

##### Jim Toomey

For the past 15 years Jim Toomey has been writing and drawing the daily comic strip Sherman’s Lagoon, which is syndicated to over 250 newspapers in North America, including the Washington Post, the Chicago Tribune, the San Francisco Chronicle, and the Toronto Star. It also appears in over 30 foreign countries, in French, Portuguese, Spanish, Norwegian and Swedish. Jim has just completed his thirteenth book, which will be published by Andrews McNeil this fall. He has also illustrated “50 Ways to Save the Ocean,” a book written by David Helvarg and recently published by Island Press. Sherman’s Lagoon combines two of his life-long passions: art and the sea. In addition to drawing his comic strip, Jim is active in marine conservation. He currently sits on the board of Blue Frontier Campaign, a non-profit based in Washington DC. Jim holds a Bachelor of Science in mechanical engineering from Duke University, and a Master of Arts from Stanford University. Jim lives in Annapolis, Maryland, with his wife and two children.

##### RADM Richard West

Rear Admiral Richard D. West, U.S. Navy (Retired), became President and CEO of CORE in August 2002. Admiral West came to CORE from the Department of the Navy where he served as Oceanographer and Navigator of the Navy. He was designated the ‘first’ Navigator of the Navy and lead the Navy transition from paper to electronic navigation. He was responsible for the review of all Navy training and procurement in support of navigation and geospatial information systems (GIS). He has been called upon to speak as an expert on navigation, GIS and safety of life at sea. As President, Rear Admiral West leads and manages the Washington, DC-based association of 92 of the country’s leading oceanographic research institutions, universities, laboratories, and aquaria. CORE’s mission is to promote, develop, and support efforts to advance knowledge and learning in the science of oceanography and to disseminate such knowledge to the scientific community and to the public.

##### Wm. A. Wulf

Wm. A. Wulf is president of the National Academy of Engineering and vice chair of the National Research Council, the principal operating arm of the National Academies of Sciences and Engineering. He is on leave from the University of Virginia, Charlottesville, where he is a University Professor and AT&T Professor of Engineering and Applied Sciences. Among his activities at the university are a complete revision of the undergraduate computer science curriculum, research on computer architecture and computer security, and an effort to assist humanities scholars exploit information technology. Dr. Wulf has had a distinguished professional career that includes serving as assistant director of the National Science Foundation; chair and chief executive officer of Tartan Laboratories Inc., Pittsburgh; and professor of computer science at Carnegie Mellon University, Pittsburgh. He is the author of more than 100 papers and technical reports, has written three books, and holds two U.S. patents.

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